

Journal of Mycology

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W. A. KELLERMAN, PH. D.

Professor of Botany, Ohio State University, Columbus, Ohio

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NOTES ON NEW OR RARE SPECIES OF *RAVENELIA*.

W. H. LONG.

In the study of the genus *Ravenelia* the following characters have been found of much importance. Some of them are often omitted from descriptions, hence attention is called to them: 1. The position of the sori, whether sub-epidermal or sub-cuticular. 2. The number and position of the germ pores of the uredospores. 3. The position and number of the cysts. These are all constant characters for any given species and can surely be determined from the usual herbarium material, as drying does not destroy them. The first must be determined by sectioning the host; the germ pores by boiling in a solution of 50 per cent. lactic acid, and the cyst characters by glycerine and lactic acid mounts.

Uredospores of the globose or sub-globose type have germ pores many and scattered, while those that are distinctly longer than broad have few (4-8) germ pores in one or two definite rows.

The position, shape and number of the cysts are of vital importance and should be carefully noted.

A good means of studying this character is to mount the specimen in a mixture of equal parts of 95 per cent. alcohol and 100 per cent. glycerine. In this the cysts will swell very slowly, thus giving time for observation. Often a drop of 50 per cent. lactic acid will have to be added to produce the desired result, *viz.*, a slow swelling of the cysts, thus revealing their shape and position; or even boiling may have to be resorted to in order to clear up the heads and swell the cysts ready for high power study.

Cysts that are *appressed* to the under surface of the head will

not show in the *first* mount of glycerine and alcohol, while cysts that are pendent can easily be seen; pendent cysts are beneath the entire head, while appressed or pulvinate cysts are peripheral; a third type of cysts is seen in those heads with *many* spheroid cysts beneath the surface, but *not* pendent. *Ravenelia microcystis* is an example of this class. Many of the appressed type of cysts will appear as if pendent when mounted in water or in a lactic acid solution, for they then swell up and hang down around the stipe like truly pendent cysts.

Two new species are here described, one from Florida and the other from Jamaica. Also emendations and remarks on several Mexican and Texan species heretofore described.

Ravenelia piscidia Long n. sp. — Sori sub-epidermal, II sori mainly hypophyllous, III sori usually epiphyllous. II sori small, punctiform, on pallid spots that show markedly on the upper surface of the leaves; II sori cinnamon brown, scattered or in irregular groups. II spores sub-globose, somewhat angular, strongly and closely verrucose, germ pores scattered, about 8, fulvous, walls unifom, $17-20 \times 20-23 \mu$, usual size, $20 \times 20 \mu$. Paraphyses sparingly present, hyphoid to sub-clavate, often curved like a golf club, fulvous, $10 \times 30-35 \mu$, bases semi-hyaline and collapsed. III sori on different leaves, epiphyllous, small, orbicular, black-brown, firm, well scattered over entire surface of leaf. III heads chestnut brown, smooth pulvinate, $65-80 \mu$, 4-5 spores in cross section, many heads only ten-spored, 6 peripheral and 4 central ones; paraphyses sparingly present in III sori, cysts hyaline, flat, appressed, peripheral, coherent into stipe, swelling and bursting in water; pedicel short, deciduous, hyaline.

On *Piscidia erythrina*, Miami, Fla., March 25, 1903. Coll. E. W. D. Holway.

This species is close to *R. uleana*, but differs in its pedicel being short and its cysts being flat and in all its gross characters.

Ravenelia arthuri Long n. sp. — Sori sub-epidermal, epiphyllous; II sori not present. II spores intermixed with III spores. II spores fulvous, walls thick, uniform, spinulose, oval to globose, germ pores scattered, more than 6, $20 \times 20-26 \mu$, paraphyses not present. III sori linear to elliptical, small, surrounded by the very prominent ruptured epidermis, black brown. III heads pulvinate, chestnut brown, smooth, $75-100 \times 40-45 \mu$ thick, 4-8 spores across, heads often irregular, cysts very many, pendent, beneath entire head, globose, hyaline, with a brown, finger-like projection from base into center of cyst, swelling and finally bursting in water; pedicel short, compound, hyaline, deciduous, cysts often separating from heads.

On unknown plant, Jamaica, W. I., Feb., 1891. Coll. Thaxter from Herbarium of Dr. Farlow.

This species differs from *R. uleana* in all its gross characters and in its short deciduous pedicel.

Ravenelia australis. Sori sub-epidermal, epiphyllous; II sori not present; II spores intermixed with III spores; II spores faintly echinulate to smooth, walls uniform, elliptic to slightly fusiform, fulvous, germ pores four, equatorial, large, $10-16 \times 27-32 \mu$, paraphyses sparingly present, clavate to sub-capitate, fulvous, darker at apex, $30-40 \mu$ long, heads $10-15 \mu$ thick, base of stipe hyaline. III sori scattered, epiphyllous, black brown, orbicular, small, naked or rarely surrounded by the ruptured epidermis, from 3 to many heads in a sorus. III heads chestnut brown to black brown, smooth pulvinate, 6-8 cells across, $70-100 \mu$, cysts appressed coherent, peripheral, hyaline; pedicel compound, hyaline, short, deciduous, cysts bursting very easily in water.

On *Leucaena microphylla* Igualla Mex., Nov. 2, 1903, No. 5314 of E. W. D. Holway.

This species was reported by Dr. J. C. Arthur as *R. verrucosa* in his "Leguminous Rusts from Mexico," Bot. Gazette 39:392, June, 1905. There are two points of difference in this and in the description of *R. australis* as originally published, viz., the cysts are reported as many and pedicel not compound. If this is correct then the Mexican plant here described is not *R. australis* but is a new species. The other characters coincide so fully that the writer has placed it as *R. australis* in spite of the differences noted.

Ravenelia mexicana Transz. was collected by Pringle, Sept. 12, 1889, in Mexico on *Calliandra grandiflora*, and has not since been reported, notwithstanding the many collections of Mexican species by Mr. Holway; that the plant was not rediscovered seemed strange, so a careful study of the Mexican species was made, with the result that the writer is fully convinced that *R. mexicana* Transz. and *R. mimosae-sensitivae* P. Henn. are the same species. A careful comparison of the types of the two species, with subsequent collection of one of them, was made, and the above opinion confirmed. The II heads of both plants have one very marked character, viz., the papillae on the heads are longer and more prominent around and near the base of the head than those at the top, being often reduced at top to warts. This is an unusual character and determined the identity of the two plants. No II spores of *R. mexicana* were seen, but the described shape and size agrees with those given for *R. mimosae-sensitivae*; also the recently described species, *R. inconspicua* Arthur, is the same plant as *R. mimosae-sensitivae*, with slightly smaller uredospores

(3-4 μ difference). As the writer sees it, *R. mexicana*, *R. mimosae-sensitivae* and *R. inconspicua* are all one and the same plant.

There are four other species so closely related that they should be considered as one species, viz., *R. expansa*, Diet. & Holw., *R. fragrans* Long, *R. humphreyana* P. Henn., and *R. pulcherrima* Arthur, while the last two are undoubtedly identical, even to the peculiar colored paraphyses.

R. expansa and *R. fragrans* differ mainly in the shape of their paraphyses, but the writer has found varying shades of these on the different hosts in Holway's collection; the other characters of the two are practically identical; the papillae on some heads of *R. fragrans* are more pronounced than on *R. expansa*, while on others they are of the same size; *R. humphreyana* differs from both in the intense wine-colored heads of its paraphyses, but the shape is the same as *R. expansa*; this color is probably due to the host; the III heads of *R. humphreyana* have slightly less prominent papillae or warts; if the paraphyses are disregarded, then the four species are the same. No. 5359 of E. W. D. Holway is *R. indica* and not *R. cassiaecola*; Nos. 5324, 5328, 5326, 5263 are *R. expansa* all of Holway's collection, "Leguminous Rusts from Mexico," Bot. Gazette 39:392, June, 1905.

Denton, Texas.

A NEW ENTLOMA FROM CENTRAL OHIO.

BY GEORGE F. ATKINSON.

Specimens, notes and photograph of a fungus that proves to be new were received from Prof. W. A. Kellerman. The following diagnosis is given:

Entoloma subcostatum Atkinson n. sp.

21542.

Photogr. Coll.

On grassy ground, Campus, Ohio State University, Columbus, Ohio. Coll., R. A. Young, Com. W. A. Kellerman. No. 4930. Received Nov. 1, 1906.

Plants gregarious or in troops or clusters, 6-8 cm high; pileus 4-8 cm. broad; stems 1-1.5 cm. thick.

Pileus dark gray to hair brown or olive brown, often subvirgate with darker lines; gills light salmon color, becoming dull;



ENTOLOMA SUBCOSTATUM ATKINSON.

stem same color as pileus but paler, in drying the stems usually becoming as dark as the pileus.

Pileus subviscid when moist, convex to expanded, plane or subgibbous, not umbonate, irregular, repand, margin incurved, flesh white, rather thin, very thin toward the margin.

Gills broad, $1-1\frac{1}{2}$ cm broad, narrowed toward the margin of the pileus, deeply sinuate the angles usually rounded, adnexed, easily becoming free, edge usually plane, sometimes connected by veins, sometimes costate, especially toward the margin of the pileus.

Basidia 4-spored.

Spores subglobose, about six angles $8-10\ \mu$ in diameter, some slightly longer in the direction of the apiculus, pale rose under the microscope.

Stems even, fibrous striate, outer bark subcartilaginous, flesh white, stuffed, becoming fistulose.

Odor somewhat of old meal and nutty, not pleasant; taste similar.

Related to *E. prunuloides* Fr. and *E. clypeatum* Linn. Differs from the former in dark stem and uneven pileus, differs from the latter in being subviscid, even stem and pileus not umbonate and much more irregular, and differs from both in subcostate gills.

Explanation of Plate 92. — *Entoloma subcostatum* Atkinson. Mature plants; the lower specimen in section shows the broad gills and very thin flesh.

FUNGI SELECTI GUATEMALENSIS. EXSICCATI
DECADE I.*

W. A. KELLERMAN.

It is proposed to issue from time to time small sets of Guatemalan fungi which may be of some interest. There will be a number of new species included, and many peculiar tropical forms, and others to illustrate new hosts, variations or extended distribution. The sets will not be offered for sale, but it is intended that the edition may be ample for the larger herbaria in case the specimens are desired. The first decade includes the following:

1. *Graphiola phoenicis* (Moug.) Poit., on *Thrinax* sp. indet.
2. *Melampsora bigelowii* Thüm., on *Salix humboldtiana* H. B. K.
3. *Puccinia cannae* (Wint.) P. Henn., on *Canna indica* L.
4. *Puccinia cognita* Syd., on *Senecio fraseri* Hemsl.
5. *Puccinia cynanchi* Lagerh., on *Philibertiella crassifolia* Hemsl.
6. *Puccinia heterospora* B. & C., on *Sida cordifolia* L.
7. *Puccinia rosea* (D. & H.) Arthur, on *Ageratum conyzoides* L.
8. *Ravenelia humphreyana* Diet., on *Poinciana pulcherrima* L.
9. *Ravenelia spinulosa* Diet. et Holw., on *Cassia biflora* L.
10. *Ustilago panici-leucophaei* Bref., on *Panicum leucophaeum* H. B. K.

1. *Graphiola phoenicis* (Moug.) Poit.On *Thrinax* sp. indet.

Gualan (alt. 122 m., 400 ft.) Dept. Zacapa, Guatemala, Central
America. Jan. 15, 1905.

W. A. Kellerman, No. 4633.

This fungus of doubtful affinity is common in green houses the world over occurring on different species of Palms. In Guatemala the parasite was found in only one locality but it was very abundant, practically all the plants in the low, wet ground where the host occurred being affected.

* Contributions to Guatemalan Mycology. III.

2. *Melampsora bigelowii* Thuem.

On *Salix humboldtiana* H.B.K.

Near Patalúl, Dept. Sololá, Guatemala, C. A. Feb. 11, 1906.

W. A. Kellerman, No. 5418.

The host determined by R. F. Griggs and the fungus by J. C. Arthur. The *salix* occurs very commonly throughout Guatemala, and in very many of the localities the Rust was observed.

3. *Puccinia cannae* (Winter) P. Henn. Uredospores.

On *Canna indica* L.

Mazatenango, Guatemala, C. A. Feb. 28, 1905.

W. A. Kellerman, No. 5357.

The teleutospores were reported by P. Hennings on material collected in Brazil, and hence the name as above; but only Uredospores were seen on the Guatemalan host, corresponding to the *Uredo cannae* Winter. Unfortunately the specimens are badly parasitized, as is commonly the case with tropical Uredineae.

4. *Puccinia cognita* Syd.

On *Verbesina fraseri* Hemsl.

Guatemala City (alt. 1465 m. 4810 ft.), Guatemala. Feb. 1, 1905.

W. A. Kellerman, No. 4324.

The host was determined by B. L. Robinson. Our determination of the fungus was verified by J. C. Arthur. This is a common Rust on a host plant quite widely distributed and abundant.

5. *Puccinia cynanchi* Lagerh.

On *Philibertiella crassifolia* Hemsl.

(Host det. John Donnell Smith.)

Laguna (Lake Amatitlán), alt. 1200 m. (3950 ft.) Depart. Amatitlán, Guatemala, C. A. Feb. 11, 1905.

W. A. Kellerman, No. 4348.

There is close morphological resemblance between *Puccinia gonolobi* Rav. and *Puccinia cynanchi* Lagerh., and they occur on many hosts. Not

willing to call my material by either of these names, and temporarily designating this rust as *Puccinia philibertiellicola* I referred the matter to Dr. J. C. Arthur who gave the name as used on this label, stating in a letter dated August 14, 1906, as follows: "I have it on the same host collected by Pringle in Oaxaca, Mex. There is considerable difference in the habit and appearance of the different collections and on different hosts, but I find no constant morphological characters with which to separate them. I have provisionally, however, assorted my material under two names *P. Gonolobi*, where the fungus is in small groups, and *P. Cynanchi*, where it spreads evenly over the surface, often extending along the young shoots as they grow, and sometimes forming witches' brooms. I have the former on five, and the latter on nine different hosts." (J. C. Arthur.)

6. *Puccinia heterospora* B. & C.

On *Sida cordifolia* L.

Gualán (alt. 122 m. 400 ft.) Dept. Zacapa, Guatemala, Central America. March 12, 1905.

W. A. Kellerman, No. 4323.

The host was identified by John Donnell Smith, and the determination of the fungus verified by J. C. Arthur. This is a widely distributed species in warm, temperate and tropical countries, occurring in Africa, India, China, Australia, the Philippines as well as in the American continent. Reported hosts are numerous. The variations are considerable; "Man ist leicht geneigt, wenn man die extremen Habitusformen vor sich hat, dieselbe darauf hin in mehrere Arten zu zerlegen; dass *Pucc. heterospora* vielleicht auf Grund von Kulturversuchen noch in mehrere Species zu trennen wäre, möchten wir eher verneinen als bejahen" (Sydow. Monogr. Ured.)

7. *Puccinia rosea* (D. & H.) Arthur.

On *Ageratum conyzoides* L.

San Felipe (alt. 615 m., 2050 ft.), Dept. Retalhuleu, Guatemala, C. A. Feb. 4, 1906.

W. A. Kellerman, No. 5446.

The host species was observed at several places in Guatemala, on the Pacific slope. The plants were abundantly affected with this Rust, which has been identified by Arthur and Kern as given above. The vitality of the host is more or less impaired by the parasite. The Rust has been collected heretofore by E. W. D. Holway in southern Mexico, on several species of *Eupatorium* and on *Ageratum corymbosum* and *Ageratum strictum*.

8. *Ravenelia humphreyana* P. Henn.On *Poinciana pulcherrima* L.Gualán (alt. 122 m. 400 ft.) Dept. Zacapa, Guatemala, Central
America. Dec. 27, 1905.

W. A. Kellerman, No. 5727.

The host was determined by R. F. Griggs and the fungus by J. C. Arthur. The host is a common plant in many parts of Guatemala and it was found usually to be abundantly affected, though no effect on the vitality or vigor of the host could be detected.

9. *Ravenelia spinulosa* Diet. et Holw.On *Cassia biflora* L.Gualán (alt. 122 m., 400 ft.), Depart. Zacapa, Guatemala, Central
America. Dec. 30, 1905.

W. A. Kellerman, No. 5441.

The host was determined by J. M. Greenman and the fungus by J. C. Arthur. This *Cassia* is common and very abundant at Gualán and many other places in Guatemala; scarcely a plant was found uninfected by the *Ravenelia* which however did not appreciably distort the host or check its growth.

10. *Ustilago panici-leucophaei* Bref.On *Panicum leucophaeum* H.B.K.Zacapa (alt. 137 m., 457 ft.) Depart. Zacapa, Guatemala, Central
America. Jan. 25, 1905.

W. A. Kellerman, No. 4301.

The identification was made by Dr. G. P. Clinton. The smut was very abundant at this locality, infecting most of the plants found on the alluvial bottom where the material was obtained. The smut was seen also in abundance on the Pacific side of the country near Lake Amatitlan, alt. 1200 m. (3950 ft.). It has been reported from Mexico and from Cuba and Jamaica. *Ustilago insularis* P. Henn. regarded by Dr. G. P. Clinton as the same species, is from Rio de Janeiro, Brazil.

NORTH AMERICAN SPECIES OF LEPIOTA

BY A. P. MORGAN.

(Continued from page 203.)

§ 2. *ANNULI MOBILES*. THE VEIL IN THIS SECTION IS MARGINAL AND INFERIOR AS IN THE FIRST SECTION, BUT THE DERMIS OF THE PILEUS AND THAT OF THE STIPE ARE DISSIMILAR, THE COLORED CUTICLE OF THE PILEUS NOT BEING CONTINUED DOWNWARD UPON THE STIPE, RARELY COLORING EVEN THE UPPER MARGIN OF THE VEIL. THE VEIL IS ANNULATE UPON THE STIPE AND IS COMMONLY A THIN MEMBRANACEOUS BAND, THOUGH SOMETIMES IT IS THICKENED AND SUBCORIACEOUS; IT IS CONTINUOUS DOWNWARD WITH THE DERMIS OF THE STIPE, AND BY ITS UPPER BORDER CONNECTS WITH THE DERMIS OF THE PILEUS. SOMETIMES THE VEIL IS FIRST TORN AWAY FROM THE STIPE AND DRAWN UPWARD TO SOME EXTENT UNTIL THE EXPANSION OF THE PILEUS BEGINS, THUS GIVING RISE TO THE TYPICAL "ANNULUS MOBILIS."

VII. *SUBCLYPEOLARIAE*. *Dermis of the pileus a thin membrane, radiately fibrillose; the cuticle at first continuous, at length separating into small or minute scales, which are drawn apart and scattered over the white fibrillose surface. The cuticle of the stipe commonly white, smooth and even or only appressedly fibrillose; the annulus thin and membranaceous, usually persistent.*

This is a large tribe of mostly small Agarics; they differ from the Clypeolariae in having a smooth, white stipe, free from the colored scales of the pileus.

a. *Scales of the pileus white, cinereous, yellowish.*

42. *LEPIOTA MIAMENSIS* MORGAN, MYC. FLORA M. V. 1883.

Pileus fleshy, ovoid then convex and explanate, subumbonate; the flesh thin, white; the dermis radiately fibrillose, all white or a little dusky in the center, the cuticle soon separating into small concentric scales; the veil thin and delicate, subappendiculate. Stipe slender, tapering slightly upward, fistulous, glabrous, all white; the annulus lacerate, subpersistent. Lamellae rather broad, white, free approximate; the spores oblong-ovoid, obliquely apiculate, 5-7 x 3 mic.

Growing in the woods among the old leaves. New York. *Peck*: Preston, O. Pileus 2-4 cm. in diameter, the stipe 4-5 cm. long and 3-5 mm. thick. A rare plant.

43. *LEPIOTA ARENICOLA* PECK, 41 N. Y. REPORT, 1887. SYLL. IX, 6.

Pileus at first broadly conical, then convex or nearly plane; the surface obscurely punctate with minute granular scales, whitish or cinereous; the margin substriate and crenulate; the veil thin and fragile, evanescent. Stripe arising from a mycelial bulb, slender, equal, stuffed, glabrous, whitish. Lamellae broad, distant, free, white; spores oblong or subfusiform, acute at one end. 12-15 x 5-6 mic.

Growing in sandy ground, New York, *Peck*. Pileus 6-12 mm. in diameter, the stipe 16-24 mm. in length, and about 1 mm. in thickness. The species is apparently rare.

44. *LEPIOTA MUTATA* PECK, BULL. TORR. CLUB, 1895, SYLLOGE XIV. 66.

Pileus fleshy, convex, subumbonate; the flesh thin and white; the dermis slightly scabrous in the center, white, brown in the dried plant. Stipe slender, equal, hollow, white; the annulus small, sometimes evanescent. Lamellae close, thin; subventricose, free, white; spores elliptic, 8-11 x 5-6 mic.

Growing on the ground in woods, Kansas, *Bartholomew*. Pileus 2-4 cm. in diameter, the stipe 2-3 cm. long and 2-5 mm. in thickness.

45. *LEPIOTA ALLUVIINA* PECK, 35 N. Y. REP. 1882.

Pileus fleshy, convex or plane, sometimes reflexed on the margin; the flesh thin, white; the dermis radiately fibrillose, separating into minute, pale yellow scales. Stipe slender, tapering upward from a slightly thickened base, whitish or pallid, the cuticle fibrillose; annulus thin, membranaceous, subpersistent, often near the middle of the stipe. Lamellae close, free, white or yellowish; spores elliptic, 6-8 x 4-5 mic.

Growing in alluvial soil among weeds. New York, *Peck*; Michigan, *Longyear*. Pileus 12-25 mm. in diameter, the stipe 3-5 cm. long and 2-3 mm. thick. In drying the whole plant assumes a rich yellow hue.

b. Scales of the pileus red, rufous, fulvous.

46. *LEPIOTA CONSPURCATA*, *AGARICUS CONSPURCATUS* WILLDENOW, PRODR. FL. BERL. 1787. *AGARICUS CRISTATUS* BOLTON, HIST. FUNG. 1788.

Odor strong, taste very disagreeable. Pileus fleshy, ovoid then campanulate and explanate, umbonate; the flesh very thin,

white; the dermis radiately fibrillose, whitish beneath the cuticle; cuticle at first continuous, alutaceous to rufous, soon separating into numerous small scales which are drawn apart and concentrically arranged around the umbo. Stipe slender, tapering slightly upward, fistulous, rufescent beneath the white silky-fibrillose cuticle; annulus membranaceous lacerate, deciduous. Lamellae moderately broad, close, white, free and rather remote; spores ellipsoid, $7-8 \times 4-5$ mic.

Growing in grassy ground in fields, gardens, etc. Pileus 2-4 cm. in diameter, the stipe 3-5 cm. long and 2-4 mm. thick. This species has been reported from various parts of the country, but evidently several of the species of the tribe have been erroneously referred to it; my specimens so referred in the *Myc. Flora M. V.* are inodorous and belong to the following species.

47. *LEPIOTA ANGUSTANA* BRITZELMAYER, *DERM. ET MEL. APP.* 1884.

Inodorous. Pileus fleshy, subovoid then convex and explanate; the flesh thin, white, subrufescent; the dermis radiately fibrillose, white beneath the rufous cuticle, which is soon drawn apart into small concentric scales. Stipe slender, tapering slightly upward, fistulous, rufescent beneath the white-fibrillose cuticle; the annulus membranaceous, lacerate, subpersistent. Lamellae rather broad, close, obtuse behind, free, white; spores pointed at one end and obtuse or truncate at the other, $5-7 \times 3$ mic.

Growing on the ground among old leaves in woods. Probably common throughout the country east and south, and known as *Lepiota cristata* A. & S. Pileus 1.5-3 cm. in diameter, the stipe 3-5 cm. long and 2-3 mm. thick. It has no disagreeable odor and is readily distinguished from *L. conspurcata* by its peculiar spores.

48. *LEPIOTA FULVASTER* B. & C., *ANN. & MAG. N. H.* 1853.

Pileus fleshy, convex then explanate, subumbonate; the flesh thin, white; the dermis radiately fibrillose, rimulose-sulcate around the margin, white beneath the cuticle; the cuticle fulvous, soon separating into small scales, which are drawn apart and spot the white surface. Stipe slender, tapering upward from a slightly thickened base, fistulous, fibrous-stuffed, white and smooth; the annulus membranaceous, fulvous, subpersistent. Lamellae ventricose, not crowded, attached to a distinct collar, which is not, however, separate from the stipe, rather thick, of a pure white; spores —————.

Growing amongst grass in sandy soil. S. Carolina, *Curtis*. Pileus 6-12 mm. in diameter, the stipe 2-3 cm. long and scarcely

1 mm. thick. "A small but extremely elegant species;" it is desirable that the spores be known.

49. *LEPIOTA RUBROTINCTA* PECK, 35 N. Y. REP. 1882. *MASTOCEPHALUS CARNEO-ANNULATUS* CLEMENTS, BOT. NEB. IV. 1896. *LEPIOTA ERYTHRELLA* SPEGGAZZINI, FUNGI, ARG. 1899. SYLLOGE XVI. 10.

Pileus fleshy, ovoid then campanulate and explanate, sub-umbonate; the flesh thin, white; the dermis radiately fibrillose; the cuticle at first continuous, orange-red to red and rufous or darker in the center, at length rimulose-sulcate and becoming scaly nearly to the umbo. Stipe tapering upward from a clavate base, fistulous, pure white, the cuticle silky-fibrillose or quite smooth; annulus a thin persistent membranaceous band, the border often colored as the pileus. Lamellae rather narrow, close, ventricose, white, free and sub-remote; spores elliptic-oblong, obliquely apiculate, $7-10 \times 4-6$ mic., uni-guttulate.

Growing on the ground among old leaves in woods, New England westward to Kansas and Nebraska. Pileus 3-7 cm. in diameter; the stipe 4-10 cm. long, 3-5 mm. thick at the apex and 5-10 mm. thick at the base. Spegazzini gives a most elaborate account of this species in all its forms; the form *e. virescens* however, seems to me distinct enough to constitute a species.

50. *LEPIOTA INCARNATA*, *MASTOCEPHALUS INCARNATUS* CLEMENTS, BOT. NEB. IV. 1896.

Pileus fleshy, conical, at length campanulate, rarely convex; the flesh very thin, white; the dermis radiately fibrillose, striate around the margin, pale incarnate beneath the darker cuticle, which at length separates into numerous small scales, the umbo becoming black. Stipe slender, equal, fibrous-stuffed, glabrous, rarely silky, pallid or pinkish; the annulus thin, membranaceous, persistent. Lamellae subdistant, white, free and remote; spores elliptic-ovoid, apiculate, $5-6 \times 3$ mic. uniguttulate.

Growing on the ground among old leaves in woods. Nebraska, Clements. Pileus 2-4 cm. in diameter, the stipe 3-6 cm. long and 2-5 mm. thick.

51. *LEPIOTA VIRESCENS*, *LEPIOTA ERYTHRELLA E. VIRESCENS* SPEGGAZZINI, FUNGI ARG. 1899. *LEPIOTA CAERULESCENS* PECK, BULL. TORR. CLUB, 1899.

Pileus fleshy, ovoid then campanulate and explanate, sub-umbonate; the flesh very thin, at first white, the whole plant exhibiting tints of red, green and blue when handled; the dermis radiately fibrillose, becoming rimulose-sulcate nearly to the center; the cuticle at first testaceous to umber, soon separating into minute reflexed scales. Stipe tapering upward from a clavate

base, fistulous silky-fibrillose or nearly glabrous, at first white; the annulus membranaceous, subsistent. Lamellae broad rather distant, at first white, free, sub-remote; spores elliptic-oblong, obliquely apiculate, 7-9 x 4-5 mic. uniguttulate.

Growing among old leaves in woods. W. Virginia, *Lloyd*; Preston, O. Pileus 1-3 cm. in diameter, the stipe 3-5 cm. long and 2-3 mm. in thickness. The peculiarity of the plant is that when handled it exhibits changing tints of red, green and blue; finally when dried it takes on a permanent bluish color.

52. *LEPIOTA RUFESCENS* MORGAN sp. nov., *AGARICUS FUSCOSQUAMEUS* MORGAN, MYC. FLORA M. V.

Pileus fleshy, ovoid then convex and expanded, subumbonate; the flesh thin, white, reddening when cut; the dermis radiately fibrillose, whitish beneath the cuticle; cuticle continuous till near maturity, whitish, pinkish and rufescent, at length separating into minute scales. Stipe tapering upward, fistulous, fibrous-stuffed, rufescent beneath the white-fibrillose cuticle; the annulus thin, membranaceous. Lamellae rather broad, close, white, rufescent, free, approximate; spores elliptic-ovoid, obliquely apiculate, 6-8 x 4-5 mic.

Growing among old leaves and rotten wood in woods. Preston, O. Pileus 3-5 cm. in diameter; the stipe 5-7 cm. in length, 4-6 mm. thick at the apex and 7-10 mm. at the base. The whole plant when handled changes gradually to a reddish-brown color, when completely dried it is black. This may be the plant *Lloyd* doubtfully referred to *Lepiota meleagris*.

c. Scales of the pileus brown or blackish.

53. *LEPIOTA SUBCLYPEOLARIA* B. & C., FUNGI CUB. 1867 COOKE, AUSTRALIAN FUNGI, and GREVILLEA, XIX. PL. 180.

Pileus fleshy, at first ovoid then convex and explanate, umbonate; the flesh thin, white, the dermis radiately fibrillose, white beneath the cuticle, striate around the margin; the cuticle at first continuous, rufous or fuscous, soon broken up and drawn apart as small scattered scales, except upon the umbo. Stipe tapering upward, fistulous, white and smooth; the annulus thin, membranaceous, persistent. Lamellae rather narrow, distant, white, free and remote from the stipe; spores elliptic, 7-8 mic. long.

Growing about the roots of trees or rotten wood. Cuba, *Wright*. Pileus 3-5 cm. in diameter, the stipe 5-8 cm. in length and 3-6 mm. in thickness. The description is based mostly on Cooke's figures.

54. *LEPIOTA SORDESCENS* B. & C. FUNGI CUB. 1867.

The flesh of the pileus thin, white; the dermis radiately fibrillose, white beneath the cuticle, the margin striate; the cuticle brown, separating into scales, which are deciduous except in the center. Stipe slender, glabrous, white, brownish when dry. Lamellae narrow, at first white, remote.

Growing on logs in woods. Cuba, *Wright*. Pileus 2-3 cm. in diameter, the stipe 3-5 cm. long and 2 mm. thick. This is all that can be inferred from the meager description.

55. *LEPIOTA FELINOIDES* PECK, BULL. TORR. CLUB, 1900, SYLLOGE XVI, 9.

Pileus fleshy, ovoid then campanulate and explanate, sub-umbonate; the flesh thin, white; the dermis radiately fibrillose, at length rimulose; the cuticle at first continuous, pale to dark umber, separating into small scales, which are gradually drawn apart nearly to the umbo. Stipe tapering upward from a clavate base, fistulous, pure white, the cuticle silky-fibrillose, annulus a thin membranaceous band, quite persistent. Lamellae rather broad, close, white, ventricose, free and subremote; spores elliptic-ovoid, $6-8 \times 4-5$ mic.

Growing on the ground among old leaves in woods. Missouri, *Glatfelter*; Preston, O. Pileus 3-6 cm. in diameter; the stipe 5-8 cm. long, 3-5 mm. thick at the apex and 5-10 mm. thick at the base. The species differs from *Lepiota rubrotincta* in no other way than in the color of the pileus; both grow together indiscriminately.

56. *LEPIOTA BRUNNESCENS* PECK, BULL. TORR. CLUB, 1904; SYLLOGE XVII. 6.

Pileus fleshy, convex or nearly plane, obtuse or umbonate; the flesh thin, white; the dermis radiately fibrillose, whitish beneath the cuticle, sometimes rimulose around the margin; the cuticle at first continuous and brownish, soon breaking up into scales and granules, except in the center. Stipe equal or slightly thickened toward the base, hollow, fibrous, white; the annulus small, persistent about the middle. Lamellae close, ventricose, free, white, spores elliptic, $6-8 \times 4-5$ mic.

Growing in open woods and grassy places. Missouri, *Glatfelter*. Pileus 2-3 cm. in diameter, the stipe 3-5 cm. long and 2-4 mm. thick.

57. *LEPIOTA GLATFELTERI* PECK, BULL. TORR. CLUB, 1904; SYLLOGE XVII. 7.

Pileus fleshy, convex or nearly plane, obtuse or slightly umbonate; the flesh thin, white; the dermis minutely innate-fibrillose, gray, gray-brown, sometimes purple tinged, the center often darker, the margin sometimes radiately rimose. Stipe subequal, firm, stuffed or hollow, whitish; the annulus thin, persistent. Lamellae close, lanceolate, free, white or whitish; spores elliptic, $6-8 \times 4-5$ mic.

Growing on the ground in woods. Missouri, *Glatfelter*. Pileus 2.5-5 cm. in diameter, the stipe 4-5 cm. long and 2-4 mm. thick.

58. *LEPIOTA PHAEOSTICTA* MORGAN sp. nov.

Pileus fleshy, sub-ovoid with a blunt apex, expanded and explanate; the flesh very thin, white; the dermis radiately fibrillose, the cuticle soon separating into very minute dark scales, which are visible as minute black points on the white surface. Stipe tapering upward from a clavate base, white, solid, glabrous; the annulus membranaceous, persistent. Lamellae close, white, tapering inward, free and rather remote; spores elliptic-oblong, obliquely apiculate, $5-6 \times 3.0-3.5$ mic.

Subcaespitose; growing out of rotten logs in woods. Preston, O. Pileus 10-15 mm. in diameter, the stipe 15-20 mm. long and 1-2 mm. thick.

59. *LEPIOTA NEOPHANA* MORGAN sp. nov.

Pileus fleshy, ovoid then campanulate and expanded, sub-umbonate, the flesh thin, firm, white; the dermis thin, tough, the surface smooth and glabrous, buff to pale umber, dark brown in the center, the cuticle continuous or at maturity sometimes cracking into irregular areolae. Stipe slender, subequal, tough, fistulose, white above the annulus, pale umber below, with a white-fibrillose cuticle. Lamellae broad, close, white, obtuse behind, free, approximate; spore oblong, obliquely apiculate, $4-5 \times 3$ mic.

Growing on the ground in woods. Preston, O. Pileus 2-3 cm. in diameter; the stipe 3-4 cm. long and 2-3 mm. thick. The peculiarity of the plant is its toughness in all parts, its subcoriaceous texture. It belongs more properly in Tribe I.

(To be continued.)

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